

ABSTRACT OF THE INVENTIONS

RF amplifier control circuits for transmitters in mobile communication devices, combinations thereof and methods therefor. The control
5 circuits include generally proportional and integral control circuits having an output coupled to a control input of an amplifier. An initial control signal is applied to the amplifier before a vector modulator output coupled an input thereof is at full output power. The vector modulator output is ramped to full output after applying the initial control signal. Thereafter, the initial control signal
10 applied to the amplifier during ramping is corrected by integrating an output of the amplifier relative to a second reference signal with an integral control circuit coupled to the control input of the amplifier, the second reference signal is proportional to the ramping vector modulator output.